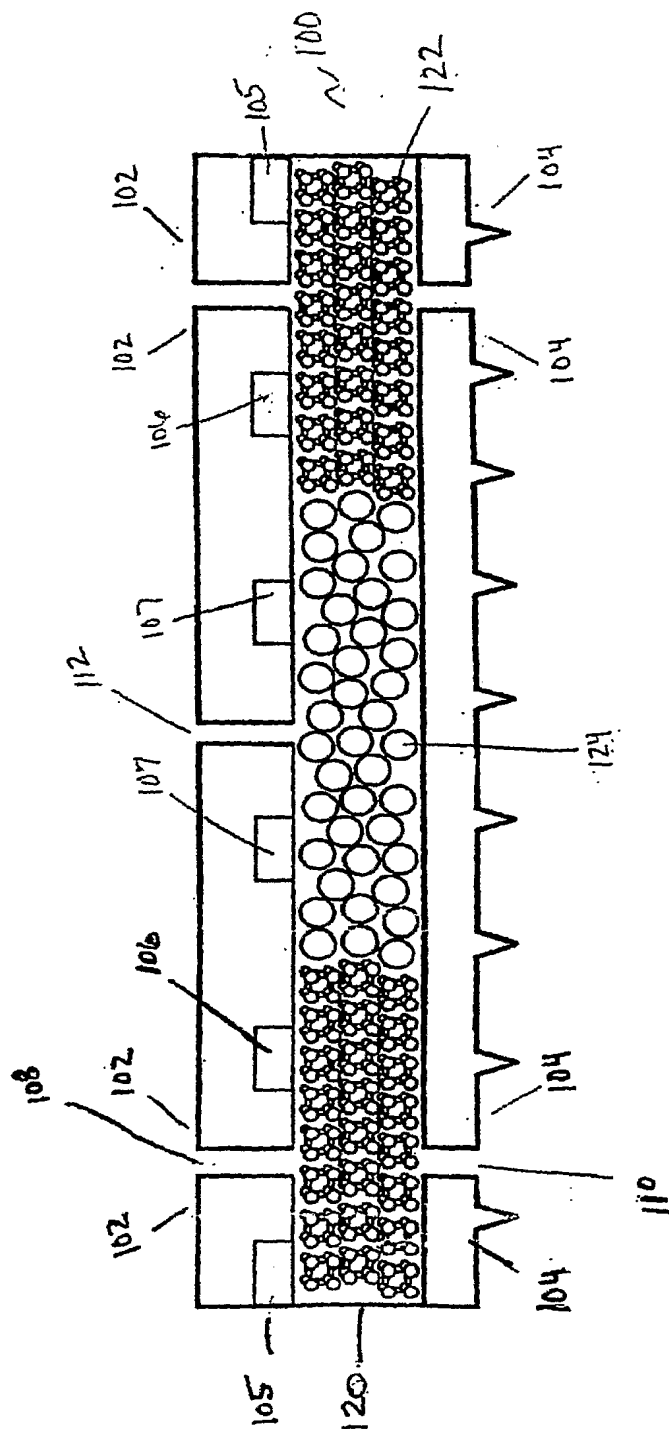


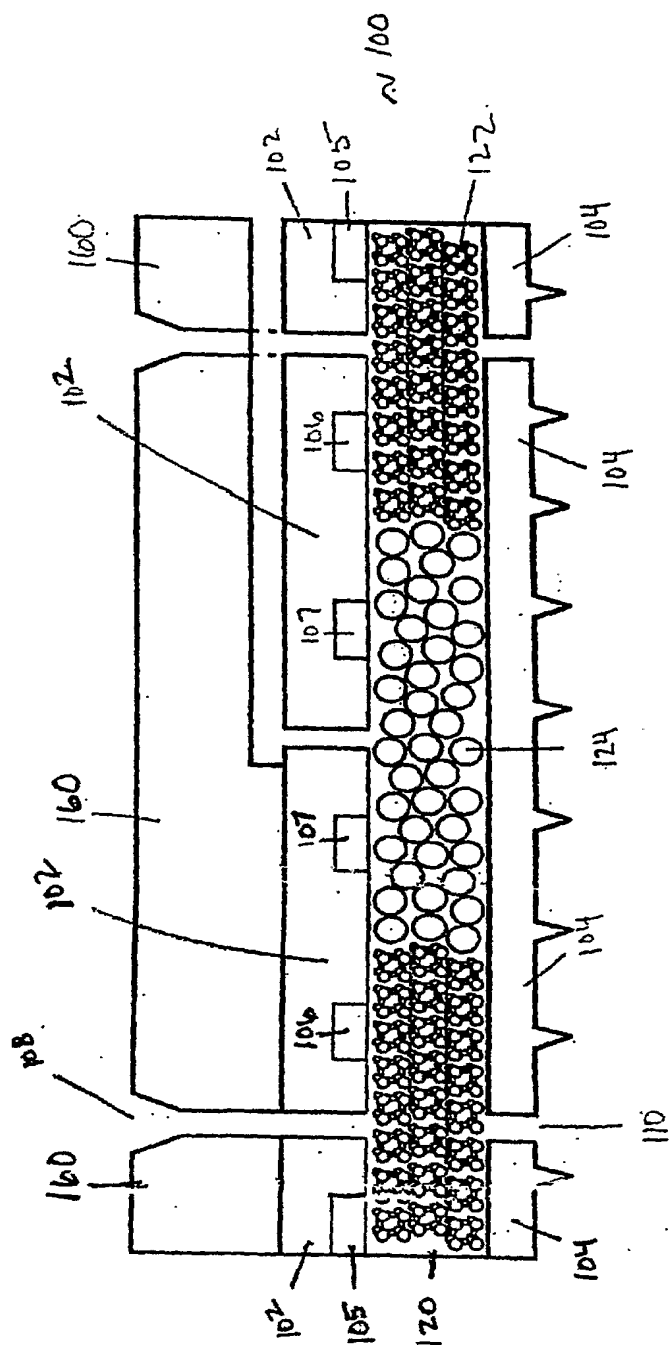
1/24

FIGURE 1A



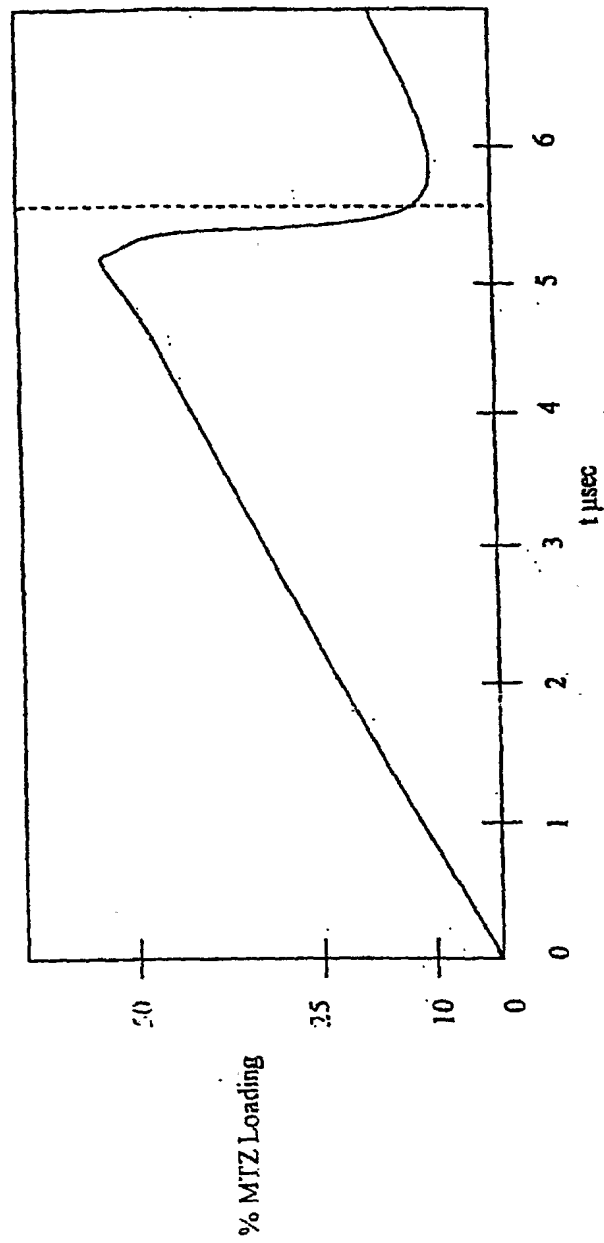
2/24

FIGURE 1B



3/24

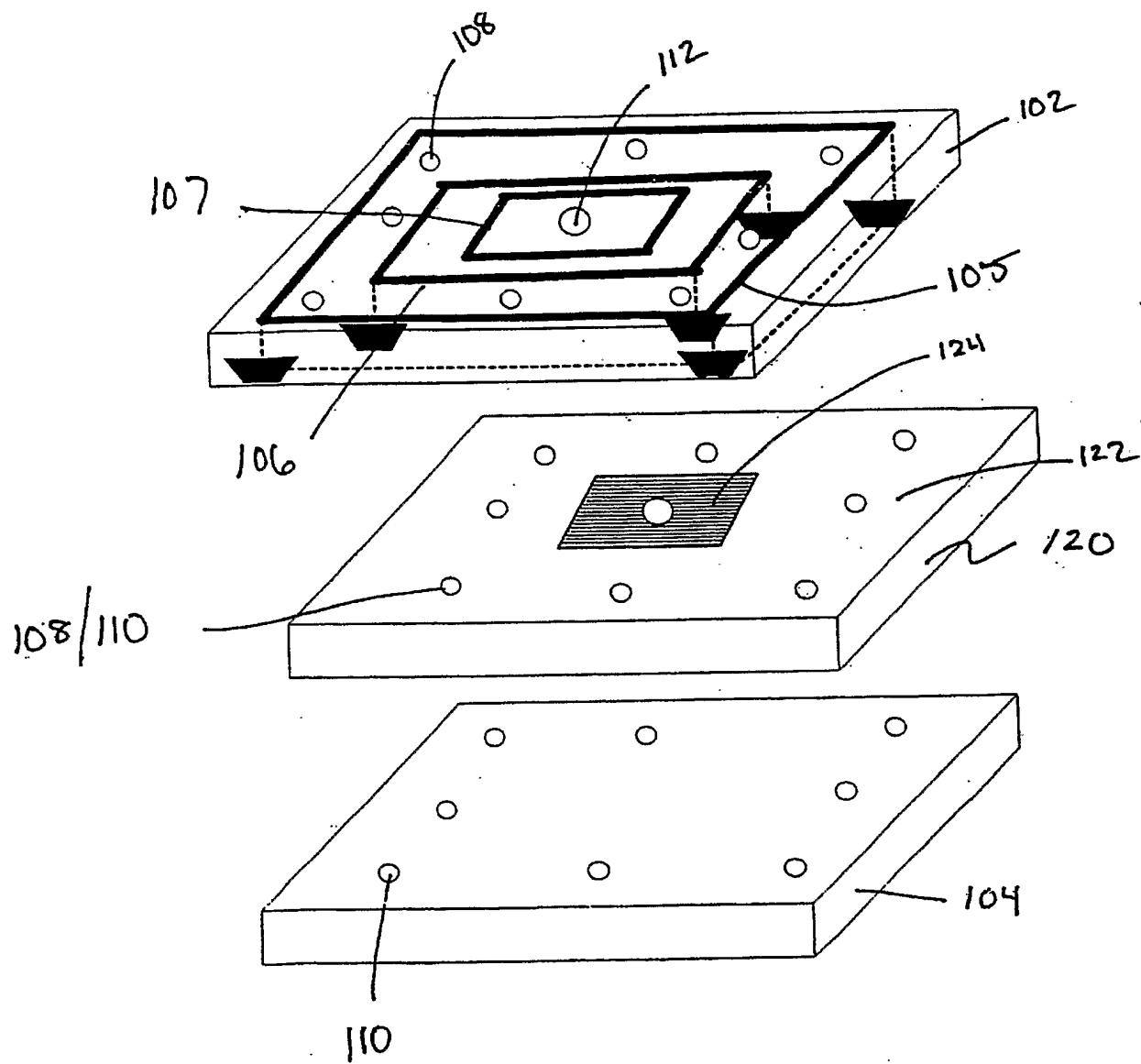
FIGURE 1C



The process is referred to as continuous because it does not cycle between vessels, but, obviously, has periodicity.

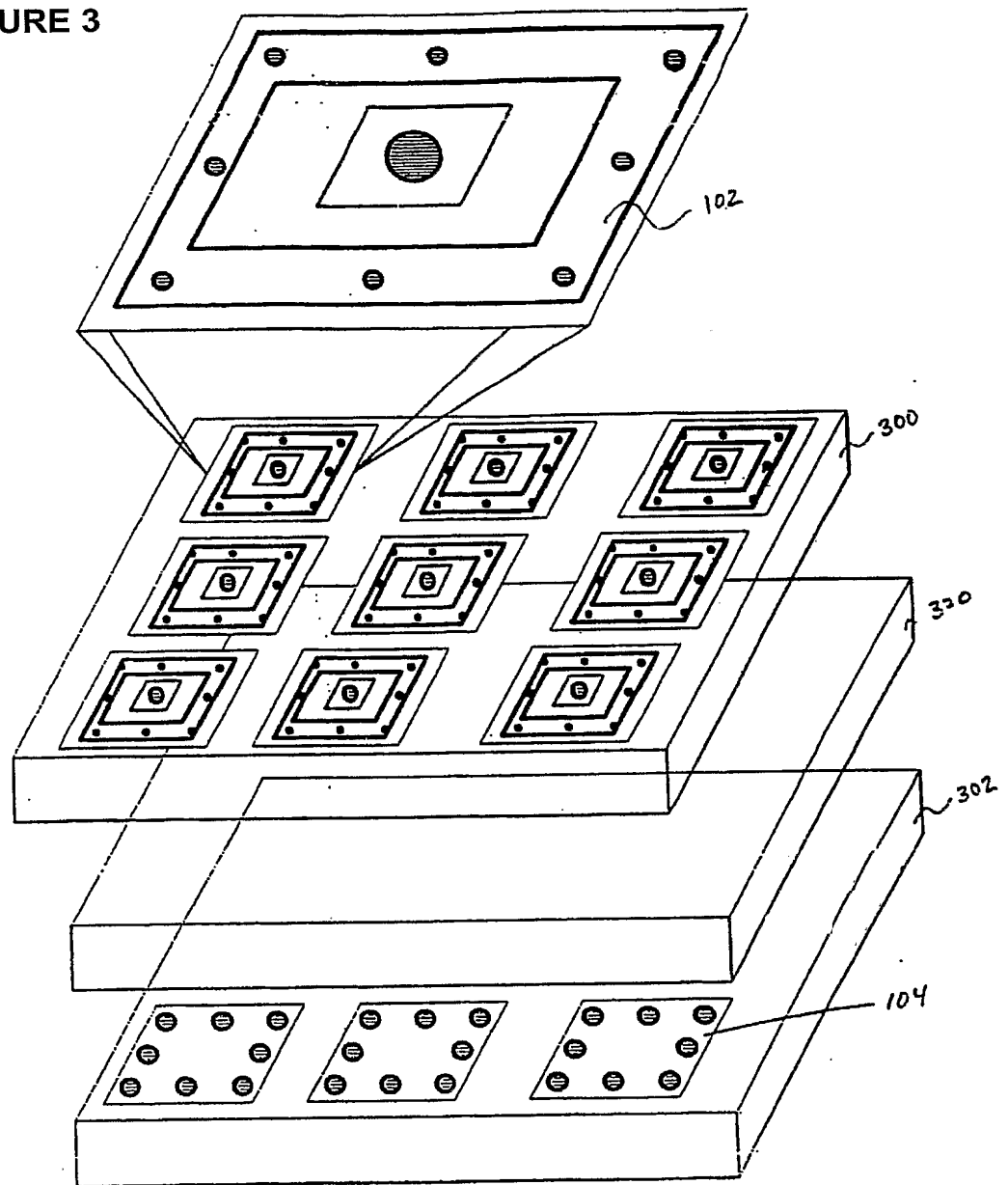
4/24

FIGURE 2



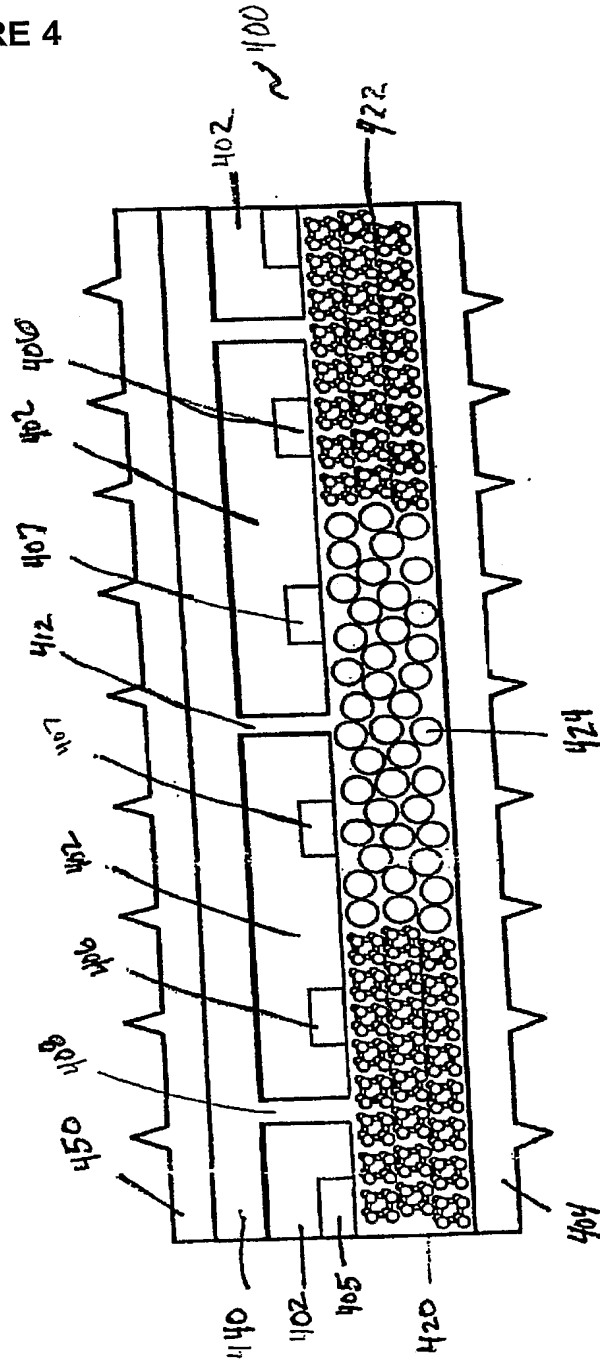
5/24

FIGURE 3



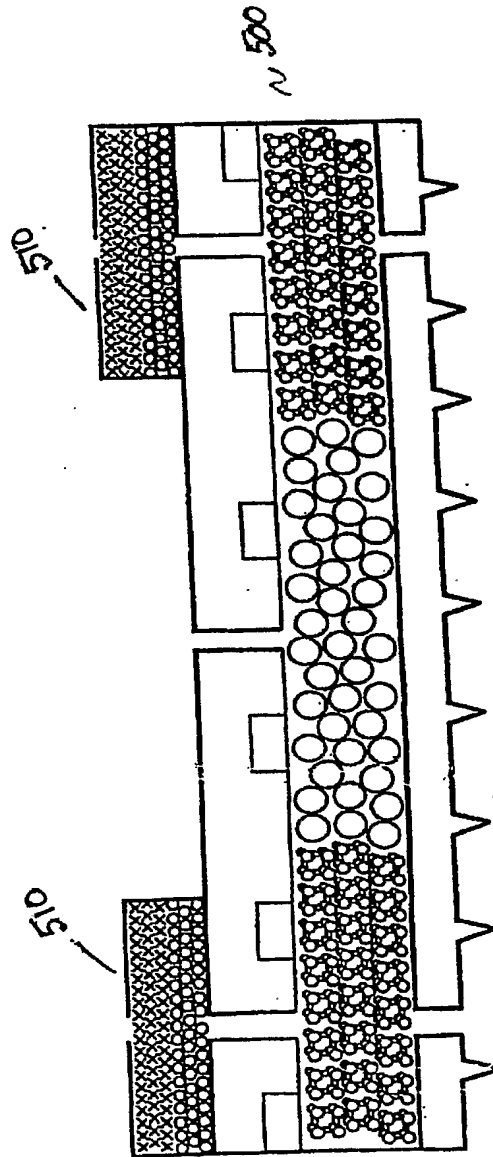
6/24

FIGURE 4



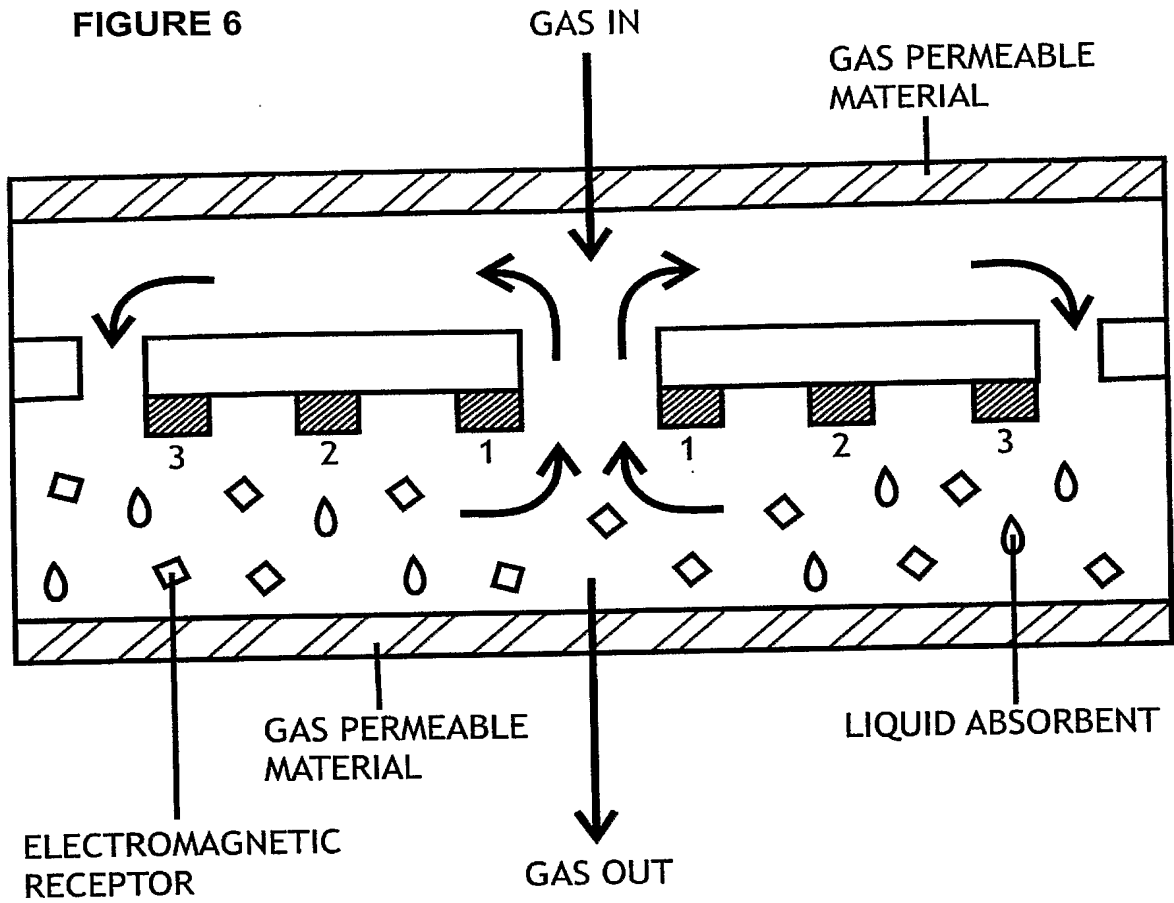
7/24

FIGURE 5



8/24

FIGURE 6

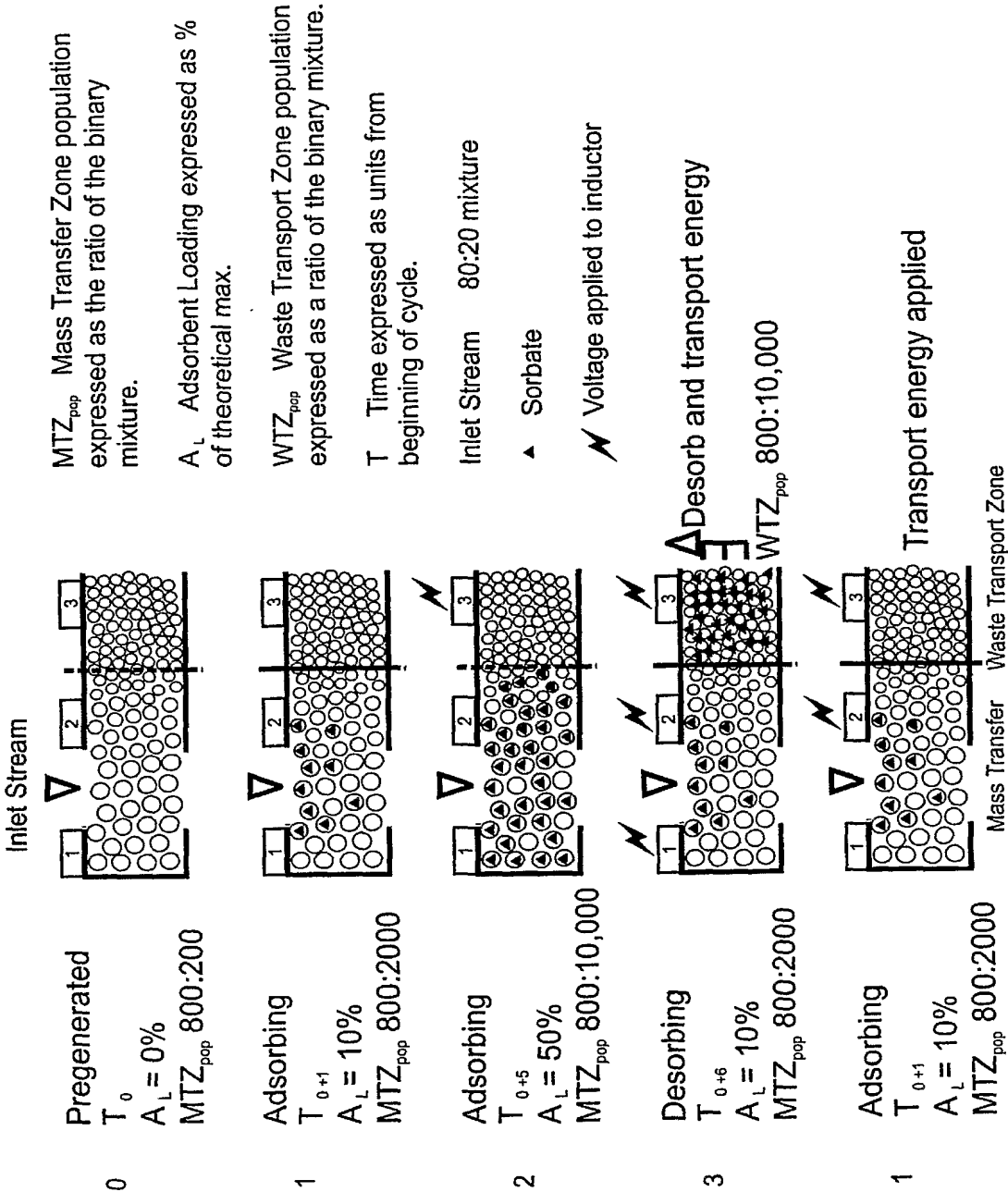


LIQUID ABSORBENT CONTRACTOR

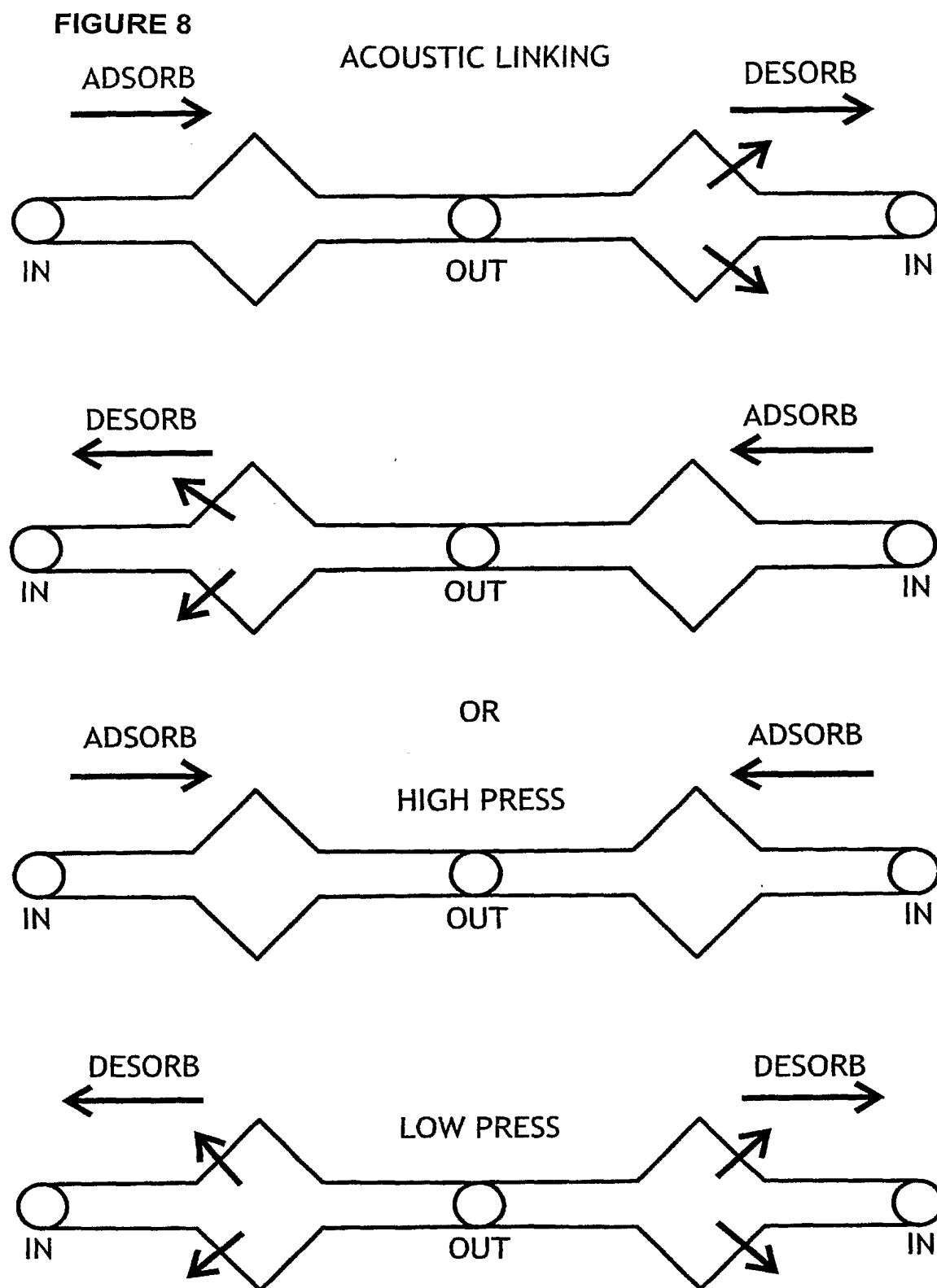
9/24

FIGURE 7

Continuous Adsorption Steps

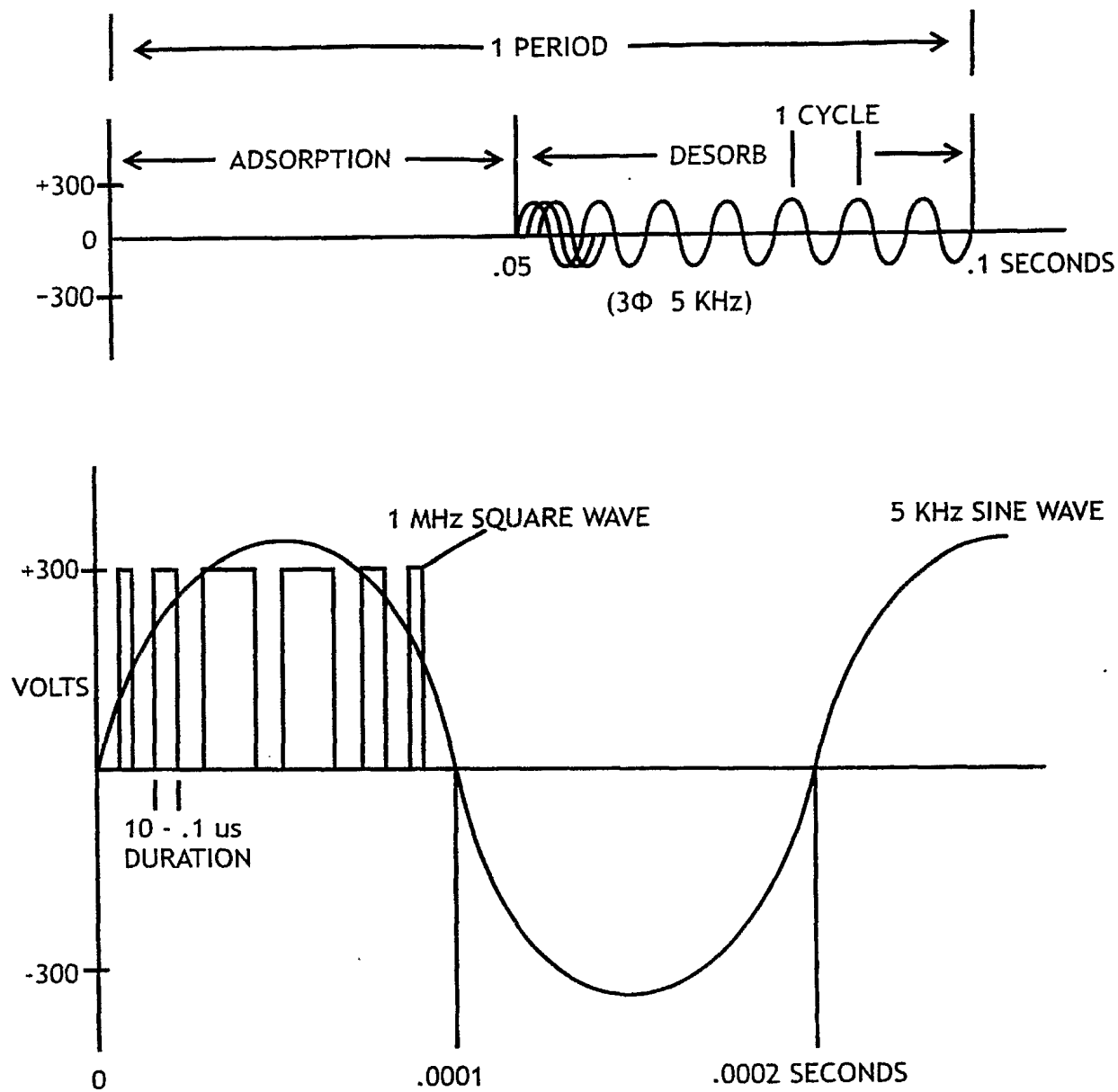


10/24



11/24

FIGURE 9



12/24

FIGURE 10A
CASCADED VACUUM PUMP

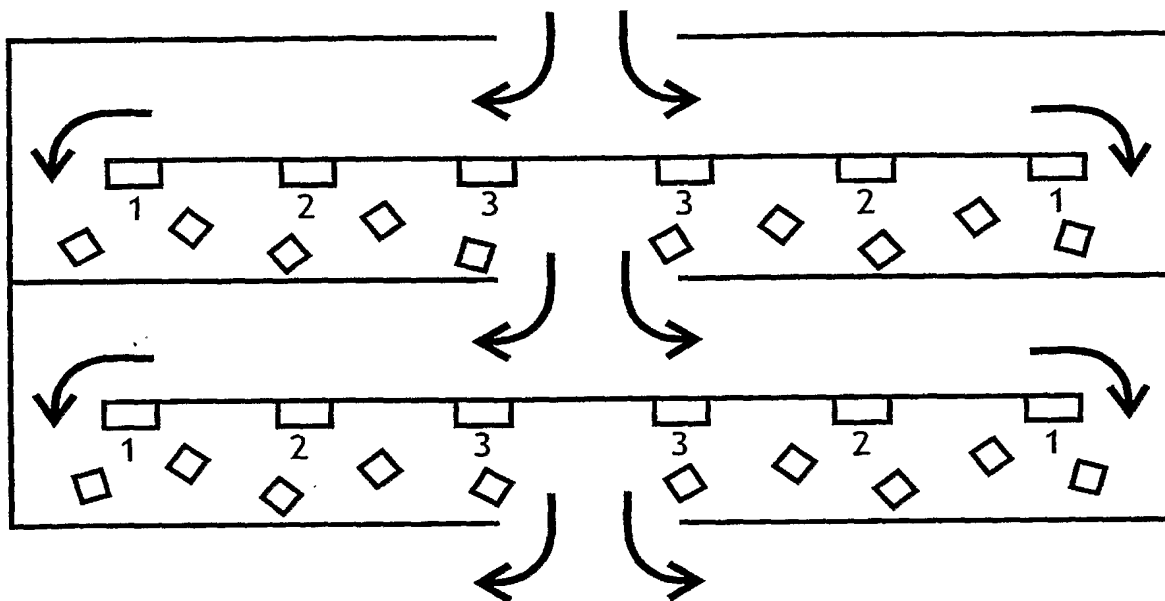
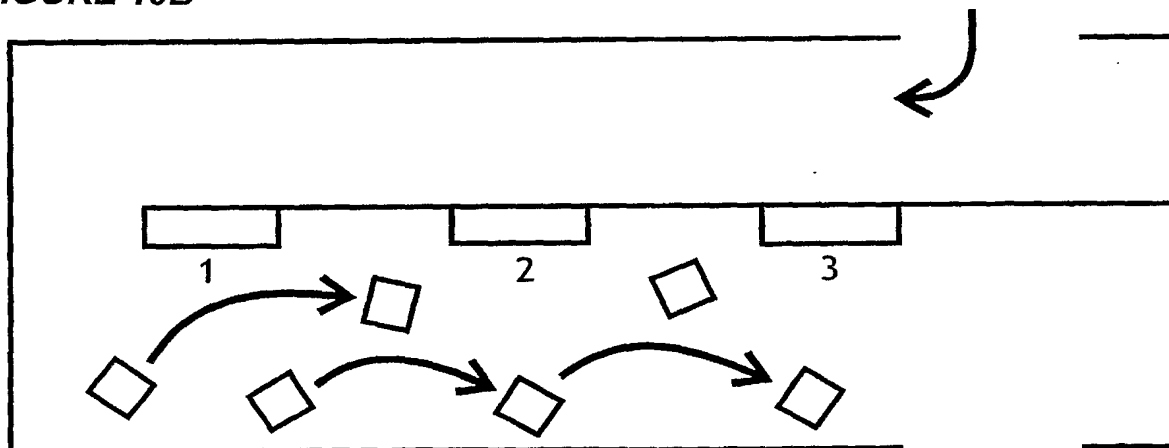
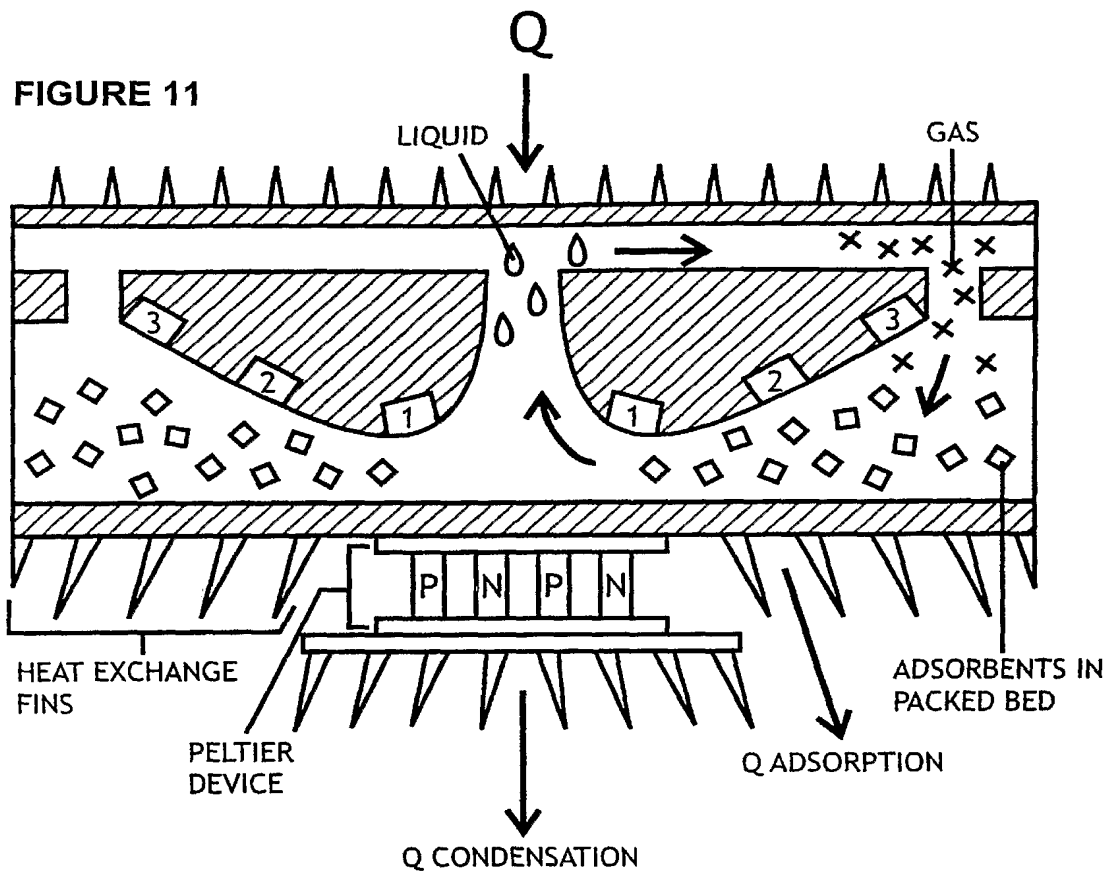


FIGURE 10B
DESORPTION - ADSORPTION SITE HOPPING PHENOMENON



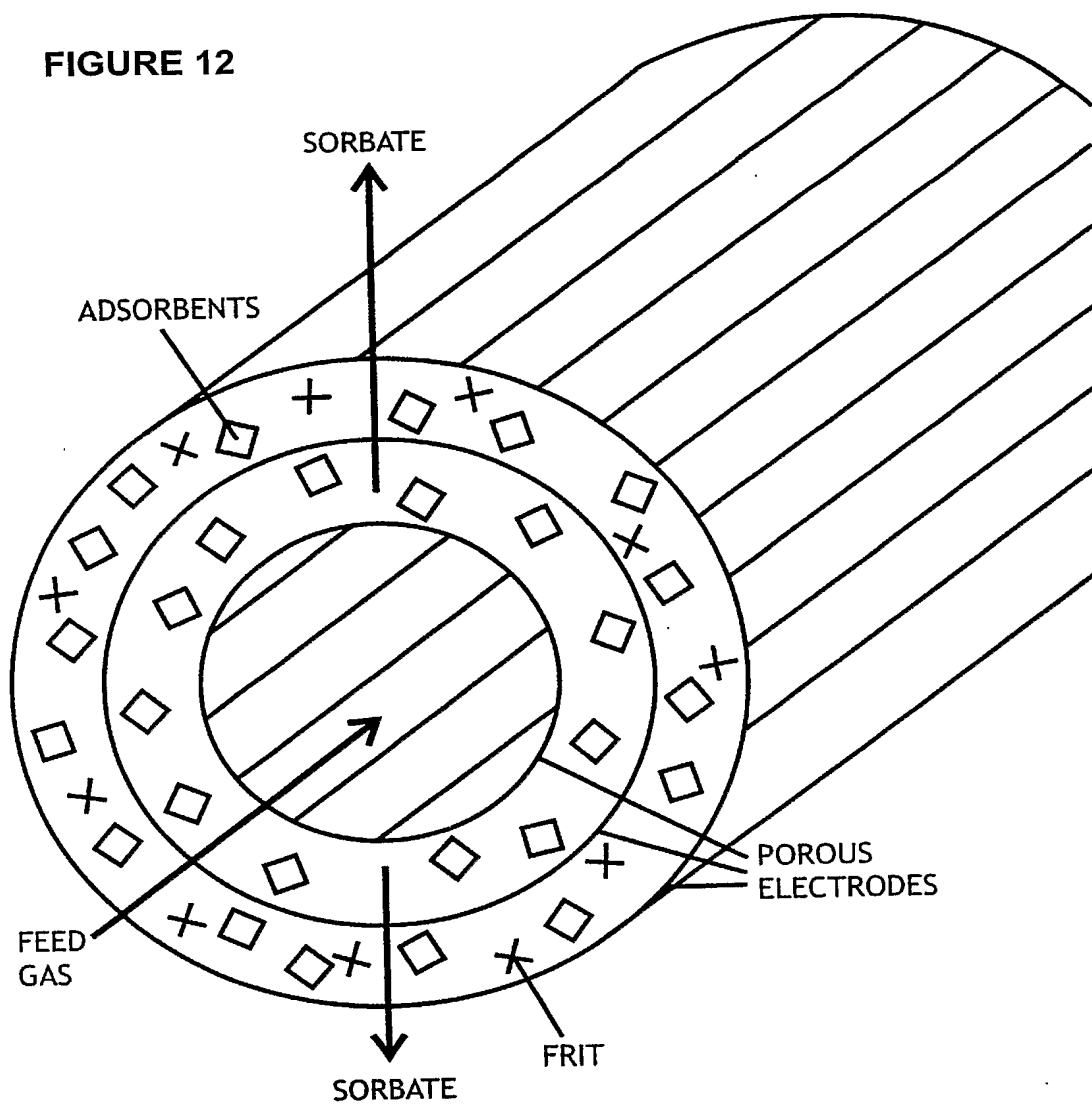
13/24



THERMOELECTRIC ASSISTED HEAT PUMP

14/24

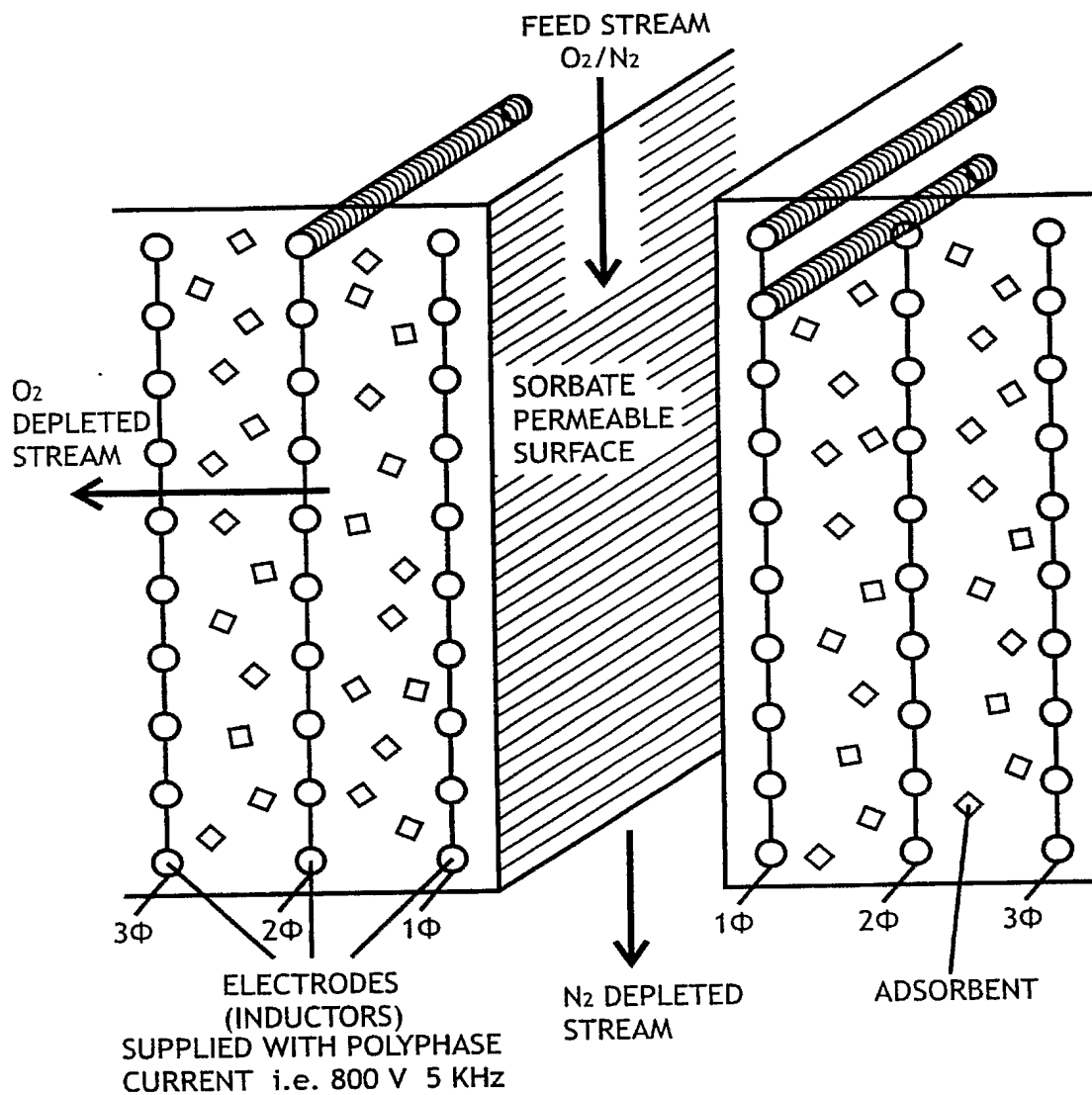
FIGURE 12



ELECTRO KINETICALLY ASSISTED SORPTION MEMBRANE

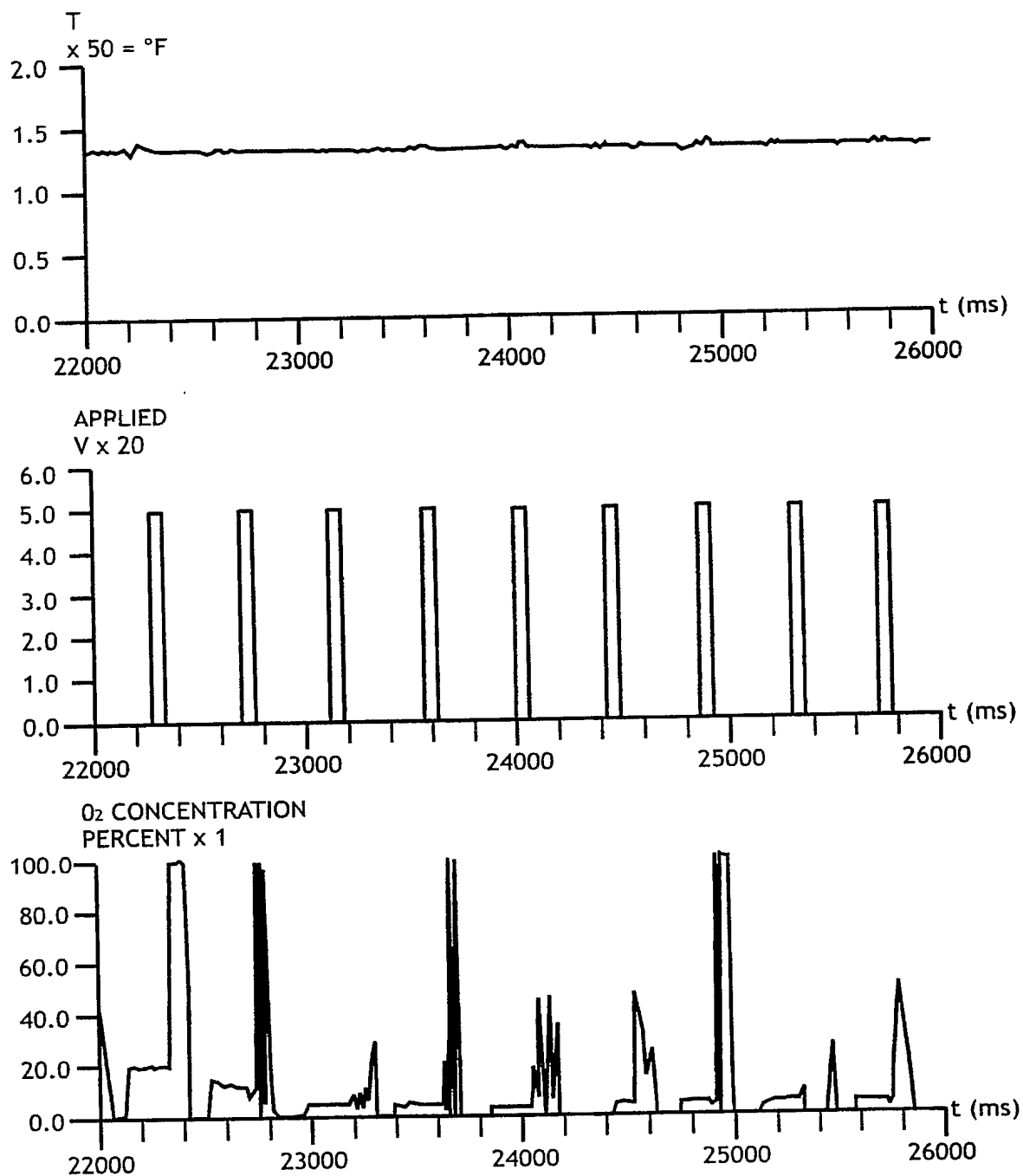
15/24

FIGURE 13



ELECTRO KINETICALLY ASSISTED SORBATE DIFFUSION

16/24

FIGURE 14

17/24

FIGURE 15A **PIEZO VALVE**

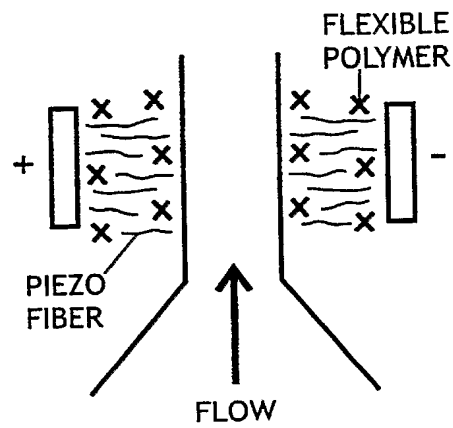
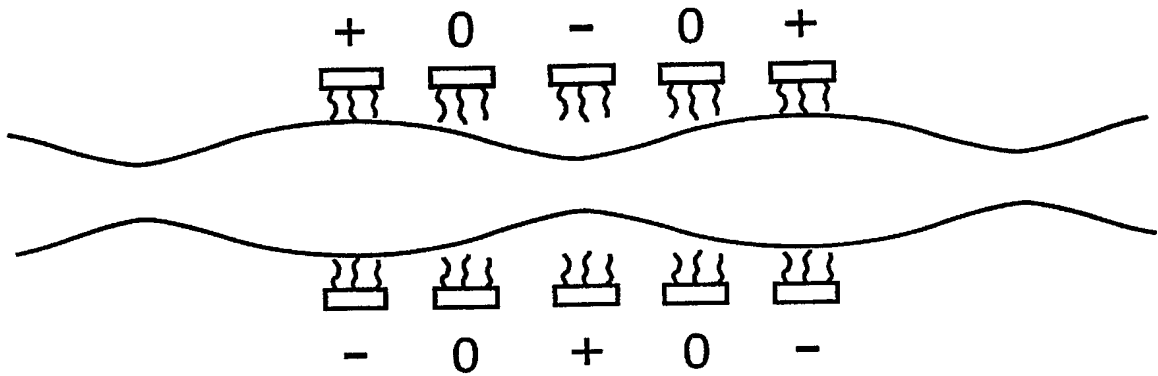
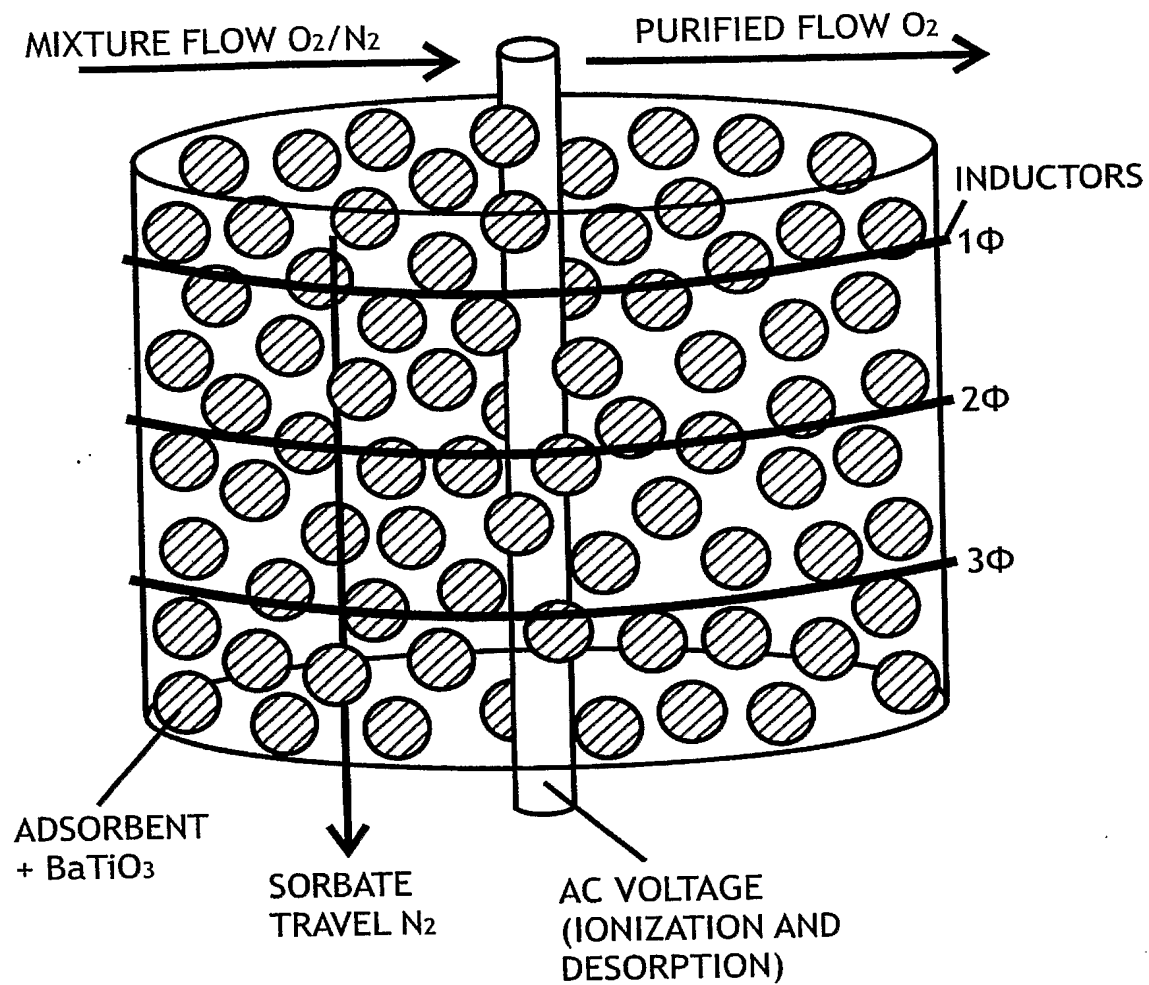


FIGURE 15B **3 PHASE PIEZO PUMP**



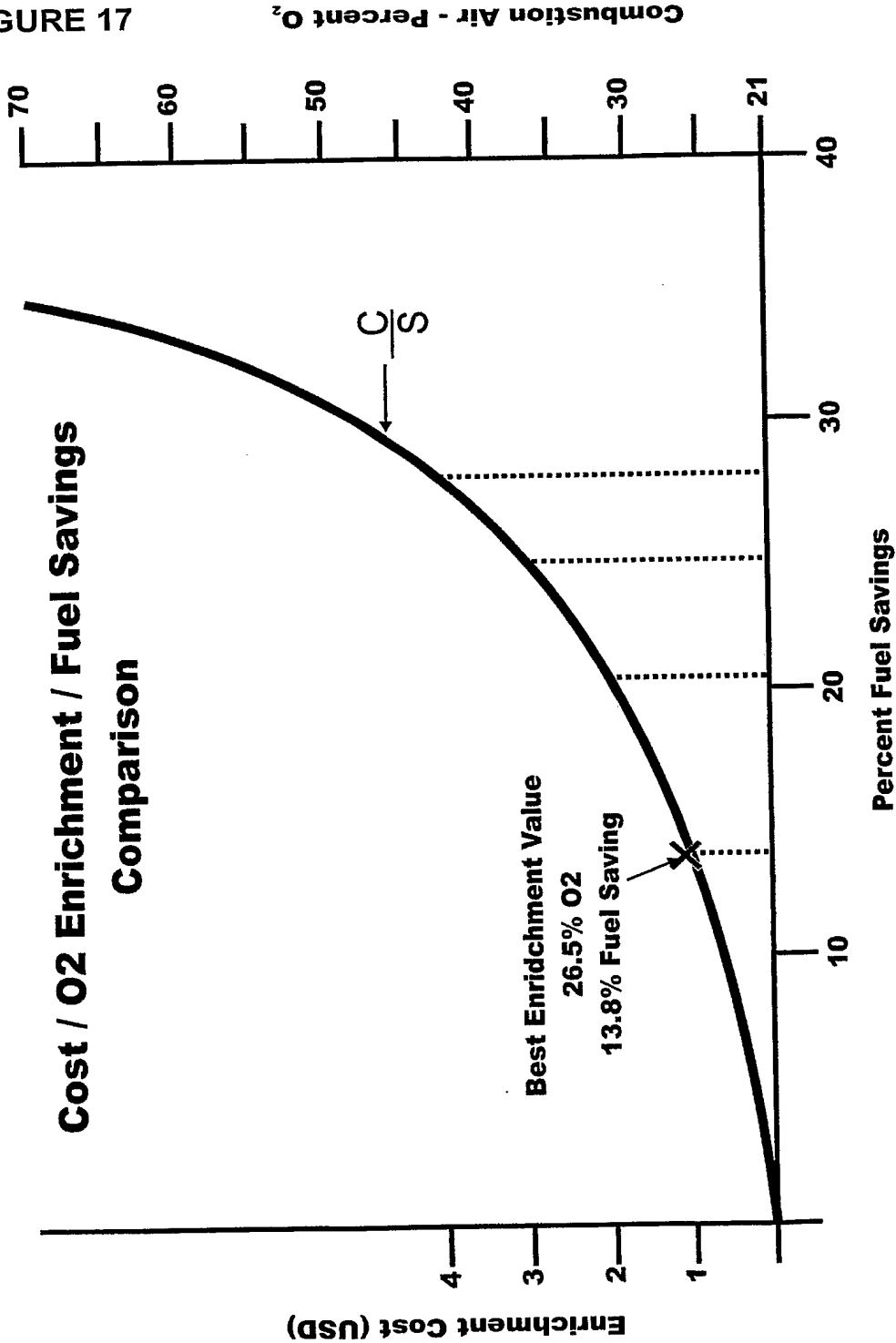
18/24

FIGURE 16



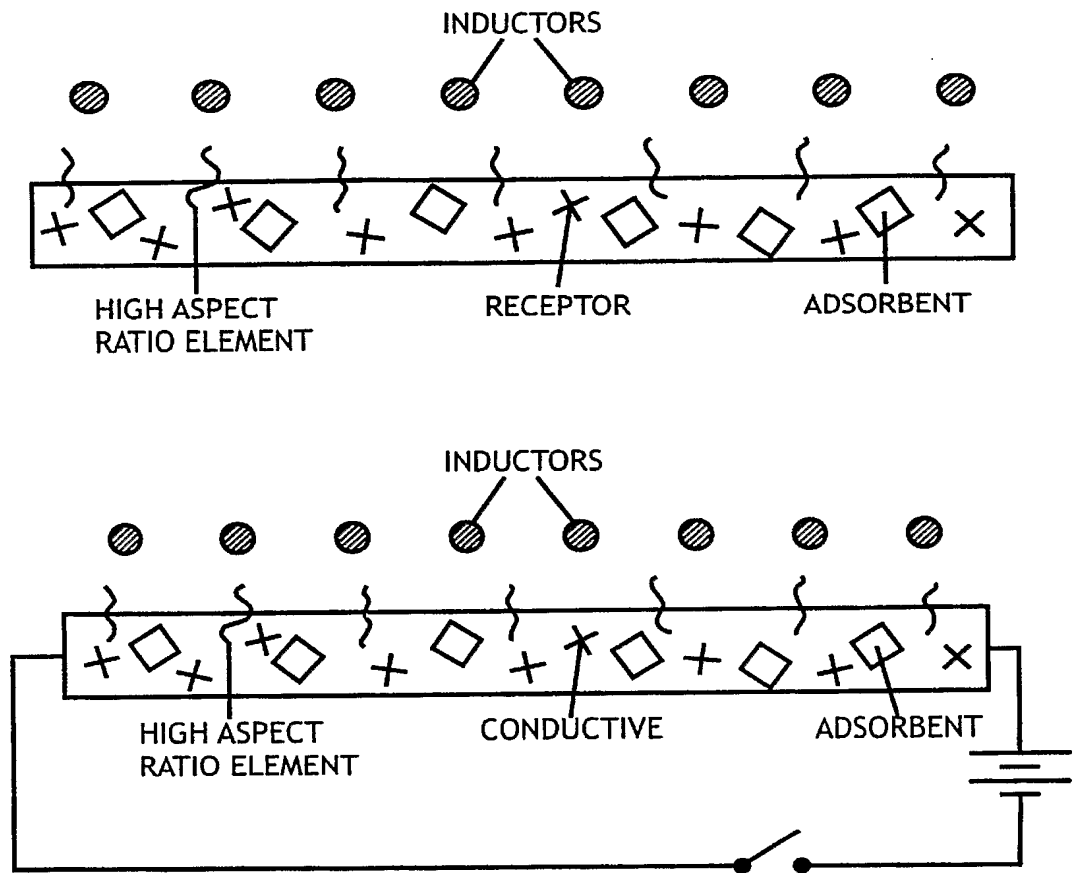
19/24

FIGURE 17



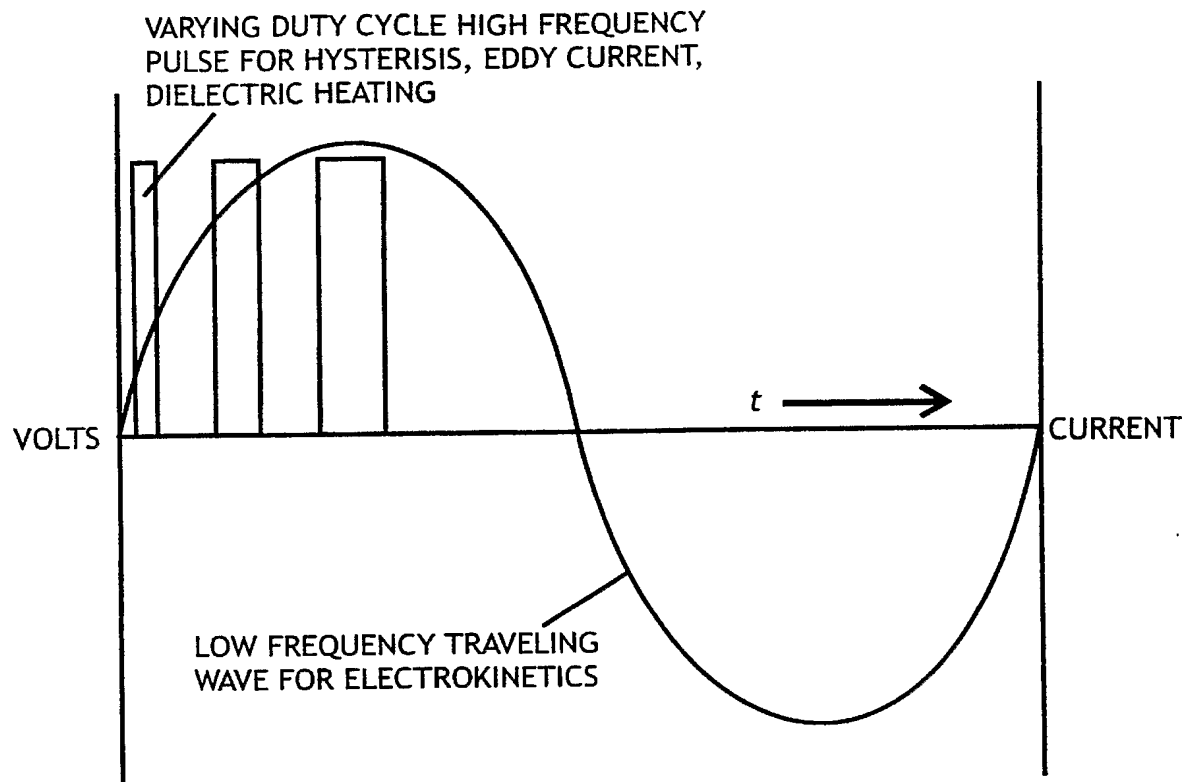
20/24

FIGURE 18



HIGH ASPECT RATIO ELEMENTS AS FIELD CONCENTRATORS FOR IONIZATION

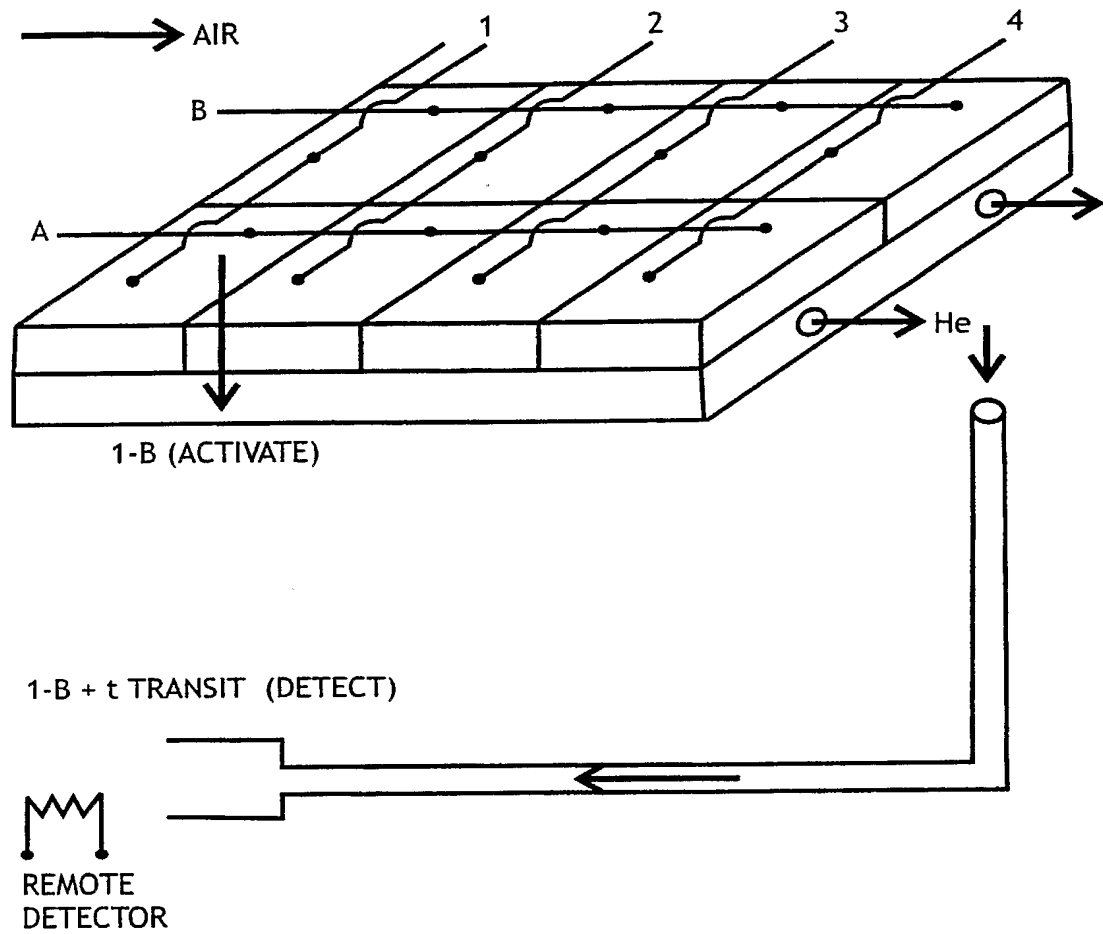
21/24

FIGURE 19

USING PULSE WIDTH MODULATION TO APPROXIMATE A SINE WAVE

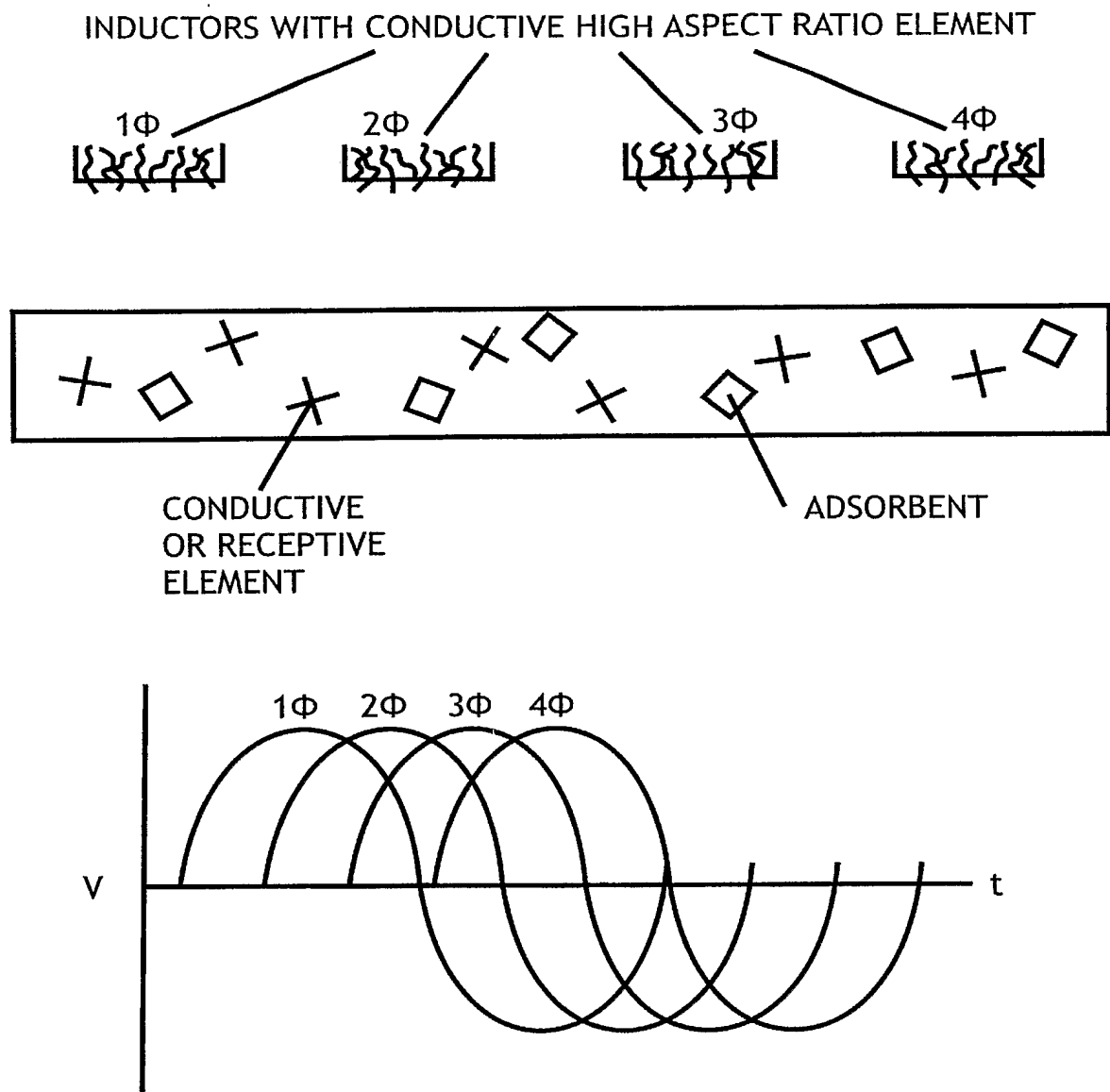
22/24

FIGURE 20



ADDRESSABLE CONCENTRATOR AND DETECTOR

23/24

FIGURE 21

24/24

FIGURE 22

